

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS D205-541 REV. G &  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D205-541 REV. 2  
REF. TCCA STC SH96-120, FAA STC SR00696NY & EASA STC EASA.IM.R.S.01242

## Purpose:

To provide the parts and instructions for converting a D205-541-043/-044 basket to a D205-541-045/-046 basket.

## Parts List:

Qty -011	Qty -012	Part Number	Description
X		DSI 9505-011	Basket Conversion Kit, LH
	X	DSI 9505-012	Basket Conversion Kit, RH
1		D3713-041	Lid Assembly, LH
	1	D3713-042	Lid Assembly, RH
3	3	D3748-1	Hinge Half
2	2	D3725-1	Hoop
2	2	D3757-1	Blanking Plate
1	1	D2258-300	Placard (Pre-installed on D3713-041/-042)
6	6	AN3-11A	Bolt
12	12	NAS1149D0363J	Washer (or AN960JD10)
6	6	MS21042L3	Nut (or MS21042-3)
3	3	AN4-20A	Bolt
6	6	NAS1149D0463J	Washer (or AN960JD416)
6	6	D3723-1	Bushing
3	3	MS21042L4	Nut (or MS21042-3)

## Procedure:





1. Remove and retain D2332-041 Prop Arm and attaching hardware.
2. Remove and retain D2530 Handle, D2535 Springs, D2537 Bushings, and attaching hardware.
3. Separate lid from hinge on D205-541-043/-044 by removing 2 x AN4-7A bolts.
4. Trim existing hinge pieces flush with the top frame of the basket base as shown in Figure 1
5. Break tack welds between mesh and frame in top of basket base as shown in Figure 1
6. Cut basket down by 4.00" (102mm) per Figure 1.
7. Trim frame for installation of basket hoops per Figure 1.
8. Deburr stubs and basket base top frame.

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DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED

BY:   
D. SHEPHERD (DE # 02)

DATE: 10.03.16  
CERT. NO.: SH96-120  
ISSUE NO.: 3

A	NEW ISSUE	RF	10.03.16
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	<b>DART AEROSPACE LTD</b>	
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		DSI 9505	SHEET 1 OF 5
APPROVED		TITLE	SCALE
DE APPR.		MODIFIED UTILITY-BASKET	NTS
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9. Install D3725-1 Hoops and stubs. Tig weld stubs and hoops to existing basket base top frame using ER316L filler rod per AWS D17.1 2001 Class "A" per Figure 2.
10. Tig weld base top frame to existing basket base using ER316L filler rod per AWS D17.1 2001 Class "A" per Figure 2.
11. Trim mesh and tack weld every available stand to new frame.
12. Locate D3713-041/-042 Lid Assembly on modified base per Figure 3 Use 0.20" (5mm) thick spacers between the lid and the modified base for proper positioning. Position 3 x D3748-1 Hinge Half on modified base and weld in place using 0.125" (3mm) thick spacers between upper and lower hinge half per Figure 3.
13. Transfer Ø0.257 (F drill) hinge holes in D3713-041/-042 Lid Assembly to D3748-1 Hinge Halves.
14. Touch up paint on modified base per ICA-D205-541.
15. Attach D3713-041/-042 Lid Assembly to modified base using AN4-20A bolts and associated hardware per Figure 4.
16. Install D2332-041 Prop Arm and attaching hardware per Figure 4.
17. Install D2530 Handle, D2535 Springs, D2537 Bushings, and attaching hardware per Figure 5.
18. Install D3757-1 Blanking Plates and attaching hardware per Figure 6.
19. Lift and drop lid to ensure lid closes properly on modified base.
20. Install a placard (not provided) next to the Product ID label to indicate "Basket has been modified to D205-541-045/-046 configuration per DSI 9505".
21. If desired, the D205-541-047/-048 steps can be installed on the modified basket base per section 3.2 of D205-541 Rev. G, or later approved revision.
22. Modified basket can be re-installed on the aircraft per section 3.1 of D205-541. Update Weight and Balance per section 4 of D205-541.

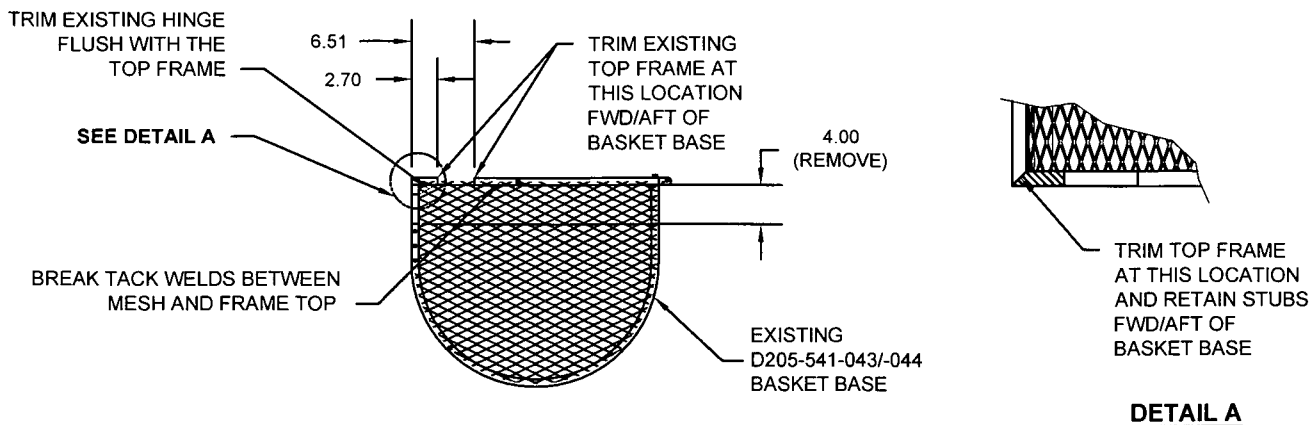
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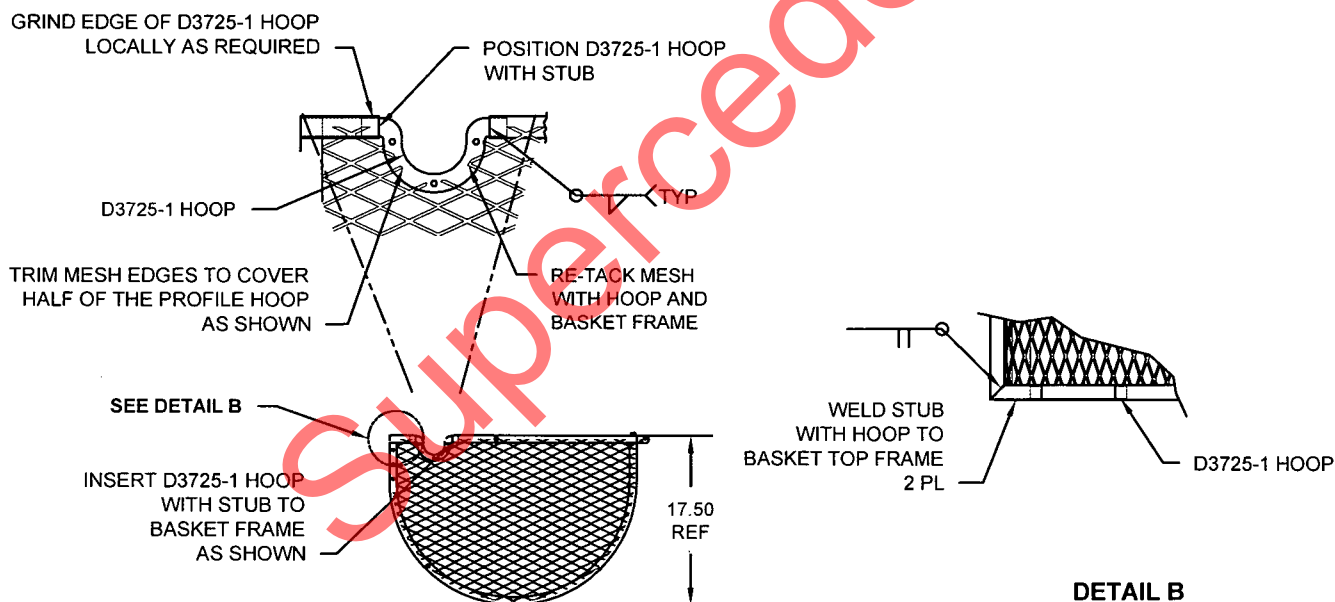
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**FIGURE 1. - FRAME TRIM DETAIL**



**FIGURE 2. - HOOP WELDING DETAIL**

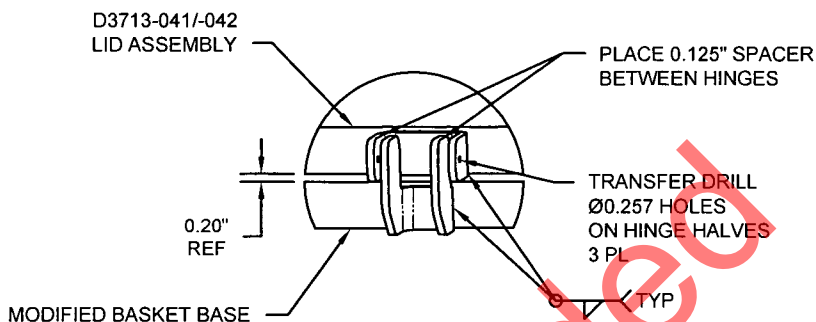
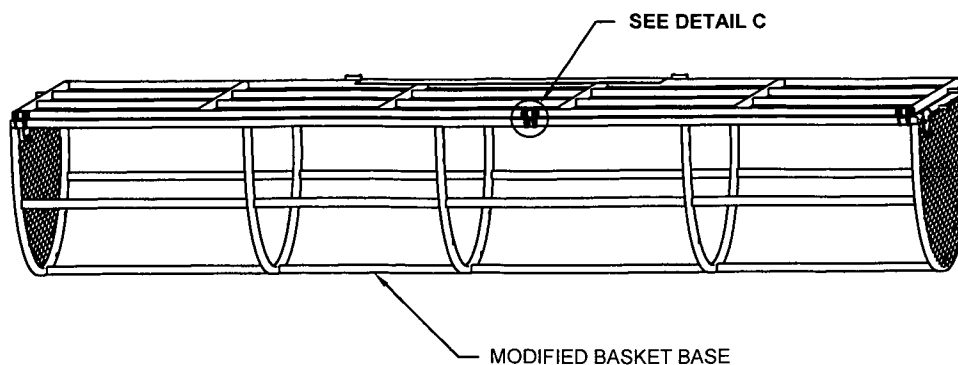
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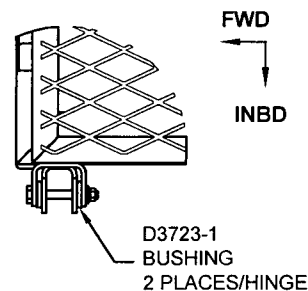
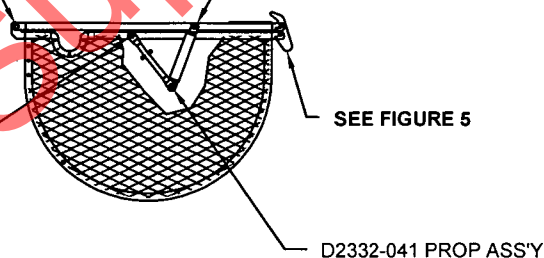
#### DETAIL C

**FIGURE 3. - HINGE DRILLING DETAIL**  
(MESH NOT SHOWN COMPLETE FOR CLARITY)

AN4-20A BOLT (1)  
NAS1149D0463J WASHER (2)  
D3723-1 BUSHING (2)  
MS21042L4 NUT (1)  
(3 PLACES/BASKET)  
SEE DETAIL D

AN4-22A BOLT (1)  
NAS1149D0416J WASHER (1)  
MS21042L4 NUT (1)  
AN970-4 WASHER (2)

AN4-24A BOLT (1)  
NA1149D0416J WASHER (1)  
MS21042L4 NUT (1)  
AN970-4 WASHER (2)



#### DETAIL D HINGE DETAIL

**FIGURE 4. - PROP ASS'Y & HINGE INSTALLATION**

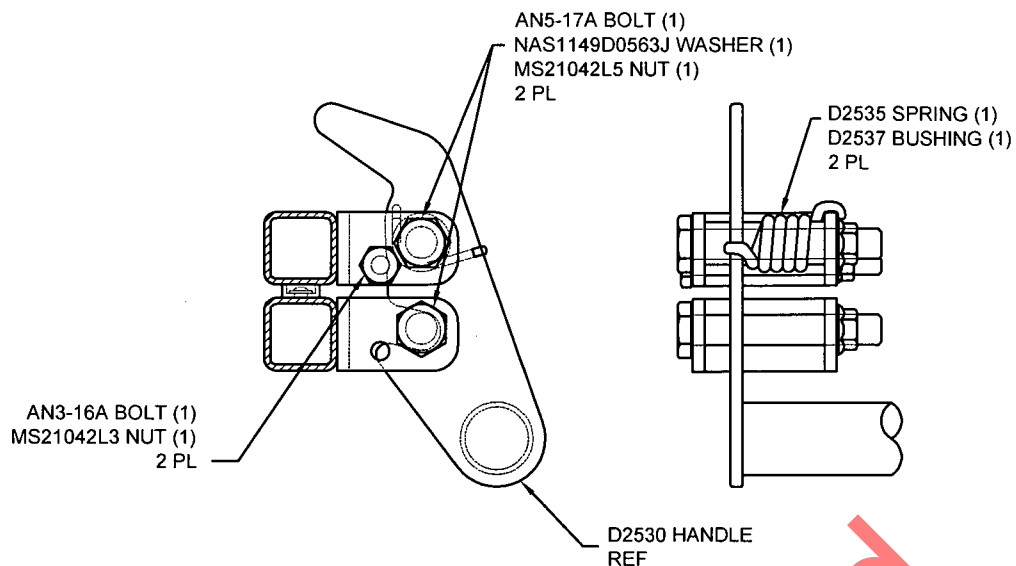
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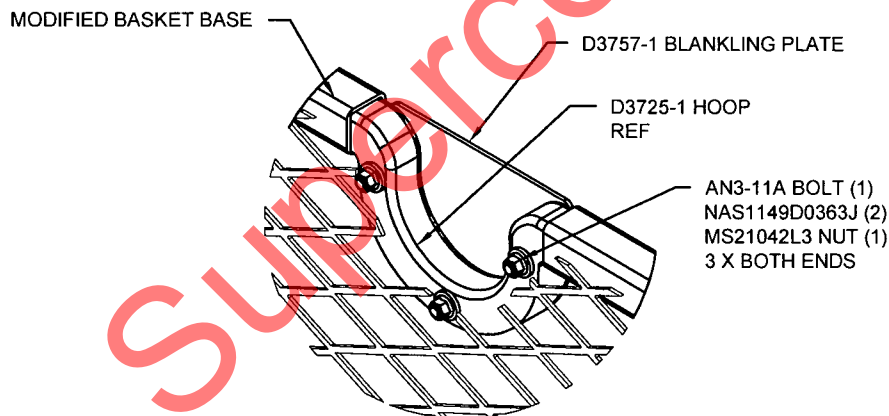
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**FIGURE 5. - LATCH INSTALLATION**



**FIGURE 6. - D3757-1 BLANKING PLATE INSTALLATION**

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